

As a below named inventor, I declare that:

My residence, Post Office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **METHODS FOR PROTECTING SILICA-CONTAINING ARTICLE AND INHIBITING BREAKS DURING DRAWING OF OPTICAL FIBER, AND SILICA-CONTAINING ARTICLE PROTECTED AGAINST BREAK-INDUCING PARTICULATES**, the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate, on the same subject matter, having a filing date before that of the application on which priority is claimed:

Country:

Application No.:

Filing Date:

NONE

I hereby claim the benefit under Title 35 United States Code § 119(e) and § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35 United States Code § 112, I acknowledge the duty to disclose material information as defined in Title 37 Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

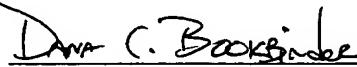
Application Serial No.: 60/109,734

Filed: November 24, 1998

Status: Pending

NONE

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

DECLARATION IN ORIGINAL APPLICATION**Attorney Docket No. Bookbinder 16-6-1****Full Name of Inventor:** Dana C. Bookbinder**Resident Address:** 2261 David Road, Corning, New York 14830**Post Office Address:** same**Citizenship:** UNITED STATESDATE: November 18, 1999

Dana C. Bookbinder

Full Name of Inventor: G. Scott Glaesemann**Resident Address:** 1039 John Hill Road, Corning, New York 14830**Post Office Address:** same**Citizenship:** UNITED STATESDATE: 11/19/1999

G. Scott Glaesemann

Full Name of Inventor: William B. Mattingly III**Resident Address:** 110 Snug Harbour Drive, Wilmington, North Carolina 28405**Post Office Address:** same**Citizenship:** UNITED STATESDATE: 11/16/99

William B. Mattingly III



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

MARCH 03, 2000

PTAS

CORNING INCORPORATED
ROBERT L. CARLSON
PATENT DEPARTMENT
SP-TI-03-1
CORNING, NEW YORK 14831



101218540A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 11/22/1999

REEL/FRAME: 010420/0010
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BOOKBINDER, DANA C.

DOC DATE: 11/18/1999

ASSIGNOR:

GLAESEMAN, G. SCOTT

DOC DATE: 11/19/1999

ASSIGNOR:

MATTINGLY, WILLIAM B.

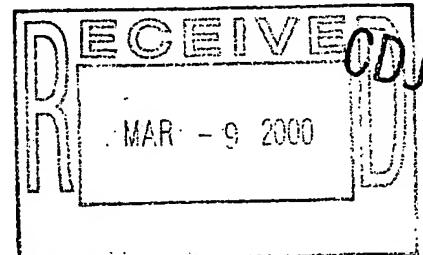
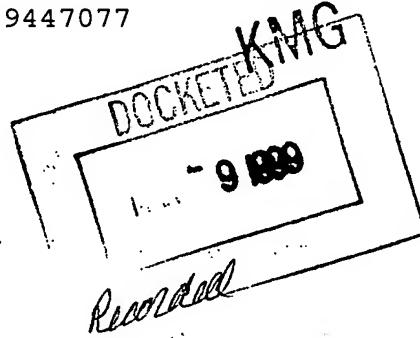
DOC DATE: 11/16/1999

ASSIGNEE:

CORNING INCORPORATED
PATENT DEPT; SP-TI-03-1
CORNING, NEW YORK 14831

SERIAL NUMBER: 09447077
PATENT NUMBER:

FILING DATE: 11/22/1999
ISSUE DATE:



ALLYSON PURNELL, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

12-09-1999

Case Name: Bookbinder 16-6-1



To the Honorable Comm.

101218540

1 SHEET

the attached documents or copy thereof.

Jcc678 U.S. PTP
09/447077



(1) Conveying Party(ies):
11.22.99
Dana C. Bookbinder
G. Scott Glaesemann
William B. Mattingly III

Title: METHODS FOR PROTECTING SILICA-CONTAINING ARTICLE AND
INHIBITING BREAKS DURING DRAWING OF OPTICAL FIBER, AND SILICA-
CONTAINING ARTICLE PROTECTED AGAINST BREAK-INDUCING
PARTICULATES

Additional name(s) of conveying party(ies) attached? Yes No

(2) Receiving Party: Corning Incorporated
Patent Dept.; SP-TI-03-1
Corning, NY 14831

(3) Nature of conveyance: Assignment executed: 11/18/1999, 11/19/1999, and 11/16/1999.

(4) Application number(s) and/or patent number(s) against which this assignment is to be recorded:

A. Patent Application No.(s):
Filing date:

B. Patent No.(s):
Filing date:

If this document is being filed together with a new application, this assignment is also to be recorded against said application, executed on _____.

(5) Name and address of party to whom correspondence concerning document should be mailed:

Name: Robert L. Carlson
Reg. No. 35,473
Corning Incorporated
Patent Department
SP-TI-03-1
Corning, NY 14831
Phone No.: (607) 974-3502

(6) Total Number of applications and/or patents involved: one

(7) Total Fee = \$40.00

Enclosed (Check No.)
 Included with filing fee. Check No. _____.

Authorization given by Corning Incorporated to charge deposit account number
03-3325 (attached is a triplicate copy of this page)

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Robert L. Carlson

Total number of pages comprising cover sheet: three

Nov. 22, 1999

Date

09447077

033325

00000119

39 DNGUYEN

40.00 CH

ASSIGNMENT

FOR VALUE RECEIVED, I, as a below name inventor, hereby sell, assign and transfer unto Corning Incorporated, a corporation organized and existing under the laws of the State of New York, having its principal place of business at Corning, New York, (hereinafter CORNING), as assignee, and unto its successors, assigns and legal representatives, the entire right, title and interest, for all countries, in and to certain inventions relating to a **METHODS FOR PROTECTING SILICA-CONTAINING ARTICLE AND INHIBITING BREAKS DURING DRAWING OF OPTICAL FIBER, AND SILICA-CONTAINING ARTICLE PROTECTED AGAINST BREAK-INDUCING PARTICULATES**, such inventions being generally described in an application for Letters Patent of the United States executed on

DATE 11-18-99
DATE 11-19-99
DATE 11-16-99

respectively, patent application Serial No. 60/109,734 filed by us in the United States on November 24, 1998, and in any future patent applications claiming the benefit of the filing date of that application, and all the rights and privileges under any and all Letters Patents that may be granted therefore.

I request that any and all patents for said inventions be issued to CORNING, its successors, assigns and legal representatives, or to such nominees as CORNING may designate.

I agree that, when requested, I will, without charge to CORNING and at CORNING's expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in CORNING, its successors, assigns and legal representatives or nominees.

I authorize and empower CORNING, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for said Convention or entered as a supplement to, and to invoke and claim such right of priority without further written or oral authorization.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of CORNING, or its successors, assigns and legal representatives or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it or entered as a supplement to it.

I covenant with CORNING, its successors, assigns and legal representatives or nominees, that the rights and property herein conveyed are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at Corning, NY, this

November 18

1999

Dana C. Bookbinder

Dana C. Bookbinder

11/19

1999

G. Scott Glaesemann

G. Scott Glaesemann

Signed at Wilmington, NC, this

11/16

1999

William B. Mattingly III

William B. Mattingly III

State of New York)

: ss.

County of Steuben)

On the 18th day of November 1999, before me personally came **Dana C. Bookbinder** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Susan M. Hynes

Notary Public

Susan M. Hynes
Notary Public State of New York
No. 01HY6023186
Qualified in Steuben County
Commission Expires April 19, 2001

State of North Carolina)

: ss.

County of New Hanover)

On the 19th day of November 1999, before me personally came **G. Scott Glaesemann** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

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State of New York)

: ss.

County of Steuben)

On the 16th day of November 1999, before me personally came **William B. Mattingly III** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Kay A. Lee

Notary Public

My Commission Expires 7/5/03

ASSIGNMENT

FOR VALUE RECEIVED, I, as a below name inventor, hereby sell, assign and transfer unto Corning Incorporated, a corporation organized and existing under the laws of the State of New York, having its principal place of business at Corning, New York, (hereinafter CORNING), as assignee, and unto its successors, assigns and legal representatives, the entire right, title and interest, for all countries, in and to certain inventions relating to a **METHODS FOR PROTECTING SILICA-CONTAINING ARTICLE AND INHIBITING BREAKS DURING DRAWING OF OPTICAL FIBER, AND SILICA-CONTAINING ARTICLE PROTECTED AGAINST BREAK-INDUCING PARTICULATES**, such inventions being generally described in an application for Letters Patent of the United States executed on

DATE 11-18-99
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DATE 11-16-99

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I request that any and all patents for said inventions be issued to CORNING, its successors, assigns and legal representatives, or to such nominees as CORNING may designate.

I agree that, when requested, I will, without charge to CORNING and at CORNING's expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in CORNING, its successors, assigns and legal representatives or nominees.

I authorize and empower CORNING, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for said Convention or entered as a supplement to, and to invoke and claim such right of priority without further written or oral authorization.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of CORNING, or its successors, assigns and legal representatives or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it or entered as a supplement to it.

I covenant with CORNING, its successors, assigns and legal representatives or nominees, that the rights and property herein conveyed are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at Corning, NY, this

November 18

1999

Dana C. Bookbinder

Dana C. Bookbinder

11/19

1999

G. Scott Glaesemann

G. Scott Glaesemann

Signed at Wilmington, NC, this

11/16

1999

William B. Mattingly III

William B. Mattingly III

State of New York)

: ss.

County of Steuben)

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Kay A. Lee

Notary Public

My Commission Expires 7/5/03

PATENT

Case Name/No.: Bookbinder 16-6-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Bookbinder et al.

Serial No.:

Filed:

For:

METHODS FOR PROTECTING
SILICA-CONTAINING ARTICLE
AND INHIBITING BREAKS
DURING DRAWING OF OPTICAL
FIBER, AND SILICA-CONTAINING
ARTICLE PROTECTED AGAINST
BREAK-INDUCING
PARTICULATES

**COMBINED
CERTIFICATE UNDER
37 C.F.R. § 3.73(b)
And
POWER OF ATTORNEY**

Assistant Commissioner for Patents
Washington, DC 20231

CERTIFICATE UNDER 37 C.F.R. § 3.73(b)

CORNING INCORPORATED, a New York corporation, certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventor(s) of the patent application identified above. A true copy of the unrecorded Assignment is attached hereto.

The undersigned has reviewed the above referenced assignment of the patent application identified above and, to the best of the undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

POWER OF ATTORNEY BY ASSIGNEE

CORNING INCORPORATED, the assignee of the full and exclusive right, title and interest in and to the accompanying application for United States Letters Patent entitled METHODS FOR PROTECTING SILICA-CONTAINING ARTICLE AND INHIBITING BREAKS DURING DRAWING OF OPTICAL FIBER, AND SILICA-CONTAINING ARTICLE PROTECTED AGAINST BREAK-INDUCING PARTICULATES and executed by Dana C. Bookbinder, Gregory S. Glaesemann, and William B. Mattingly III, on 11/18/1999, 11/19/1999, and 11/16/1999, appoints the practitioners associated with the Customer Number provided below (i.e., the practitioners associated with the Patent Department, Corning Incorporated) to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Please direct all correspondence to Robert L. Carlson at the address associated with that Customer Number.

Customer Number 22928



22928

PATENT TRADEMARK OFFICE

CORNING INCORPORATED

Date: 11-22-99

By _____

Alfred L. Michaelsen
Sr. Vice-President and
General Patent Counsel

ASSIGNMENT

FOR VALUE RECEIVED, I, as a below name inventor, hereby sell, assign and transfer unto Corning Incorporated, a corporation organized and existing under the laws of the State of New York, having its principal place of business at Corning, New York, (hereinafter CORNING), as assignee, and unto its successors, assigns and legal representatives, the entire right, title and interest, for all countries, in and to certain inventions relating to a **METHODS FOR PROTECTING SILICA-CONTAINING ARTICLE AND INHIBITING BREAKS DURING DRAWING OF OPTICAL FIBER, AND SILICA-CONTAINING ARTICLE PROTECTED AGAINST BREAK-INDUCING PARTICULATES**, such inventions being generally described in an application for Letters Patent of the United States executed on

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Signed at Corning, NY, this

November 18

1999

Dana C. Bookbinder

Dana C. Bookbinder

11/18

1999

G. Scott Glaesemann

G. Scott Glaesemann

Signed at Wilmington, NC, this

11/18

1999

William B. Mattingly III

William B. Mattingly III

State of New York)

: ss.

County of Steuben)

On the 18th day of November 1999, before me personally came Dana C. Bookbinder known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Susan M. Hynes

Notary Public

Susan M. Hynes
 Notary Public State of New York
 No. 01HY6023186
 Qualified in Steuben County
 Commission Expires April 19, 2001

State of North Carolina)

: ss.

County of New Hanover)

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Notary Public

My Commission Expires 7/5/03